

ds

Set	Items	Description
S1	1646	VIRTUAL (5N) (BUSINESS (5N) MODEL)
S2	0	VIRTUAL NEAR10 ALLIANCE??
S3	2750608	ALLIANCE??
S4	15433	VIRTUAL (10N) (FLOW?? OR COMMUNICATION)
S5	8257324	CONTRACT?
S6	10454191	CONTROL?
S7	28	S1 AND S4
S8	10	S7 AND S5
S9	9	S8 AND S6
S10	9	RD (unique items)
S11	9	RD (unique items)
S12	607	AU=(HALE D? OR HALE, D?)
S13	0	S12 AND S1
S14	723816	OUTSOURC?
S15	55320	INTEGRAT? (5N) OUTSOURC?
S16	15	S1 AND S15
S17	8	RD (unique items)
S18	4	S17 AND S5
S19	3	S18 AND S6
S20	3	RD (unique items)
S21	2	S16 AND S4
S22	2	RD (unique items)
S23	1526264	COORDINAT?
S24	2	S16 AND S23
S25	94355	VIRTUAL (10N) (INTEGRATION OR ENTERPRISE OR BUSINESS)
S26	291375	FINANCIAL (10N) TRANSACTION?
S27	1756513	PAYMENT
S28	76964	INVOICE
S29	2846929	PAYMENT??
S30	156521	INVOICE??
S31	3459	S26 AND S29 AND S30
S32	50	S25 AND S31
S33	32	RD (unique items)
S34	19	S33 NOT PY>2000
S35	20320	CREDIT (10N) RISK (10N) ANALYSIS
S36	0	S34 AND S35
?		

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S34	19	S33 NOT PY>2000

?save temp

Temp SearchSave "TD087" stored

?s credit (10n) risk (10n) analysis

Processing

Processed 10 of 26 files ...

Completed processing all files

3988623 CREDIT

4036606 RISK

6435216 ANALYSIS

S35 20320 CREDIT (10N) RISK (10N) ANALYSIS

?s s34 and s35

19 S34

20320 S35

S36 0 S34 AND S35

?

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?save temp

Temp SearchSave "TD087" stored

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t s34/6,k/1-19

34/6,K/1 (Item 1 from file: 15)
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02367381-117541709

USE FORMAT 9 FOR FULL TEXT

Identifying effectiveness criteria for Internet payment systems

1998

WORD COUNT: 9810

Identifying effectiveness criteria for Internet payment systems

...ABSTRACT: method of paying for these products and services. This paper discusses the problem of Internet **payment** systems (IPS) and reports the results of a research project which attempts to identify and...

...TEXT: and security of personal information. A major problem, however, is the lack of an integrated **financial transaction** system suitable for an open electronic marketplace such as the Internet. How the consumer will pay for goods and services and how the provider will receive the **payment** securely over the Internet are issues which are being seen as some of the most...

...factors for Internet commerce.

To overcome these problems, many individuals and organisations have been developing **financial transaction** systems for the Internet which are becoming known as Internet **payment** systems (IPS). Clearly, there is considerable interest in the concept of IPS (more than 30...

... although there are also a number of similarities. Most current IPS already guarantee security of **transactions** by applying various technologies to the transmission of the **financial** message (some of them can even protect the customer's privacy. However, are security and...

... concludes with a discussion of future research approaches which could further extend this work.

Internet **payment** systems

An exact definition of an IPS is difficult to find (and varies widely from ...the purposes of this paper, therefore, we define an IPS as:"

Any conventional or new **payment** system which enables **financial transactions** to be made securely from one organisation or individual to another over the Internet."

By its definition, IPS is clearly a sub-type of the wider group known as electronic **payment** systems (EPS). An EPS can be broadly defined as "any transfer of funds initiated through...

... The development of EPS has arisen in response to recognition of the weakness of traditional **payment** systems in the environment of modern commerce (Panurach, 1996). In general, there are two main types of EPS:

- (1) wholesale EPS, designed primarily for the business community's **payment** needs; and

- (2) retail EPS, designed primarily for the individual consumer of financial services.

Wholesale banking represents **payment** activities occurring at the corporate level (such as automatic salary **payments** to employees' bank accounts, direct company-to-company **payments** via banks, or international funds transfers. Retail banking represents any banking which is not wholesale...

... discuss this range of EPS in detail (but it is important to understand where Internet **payment** systems fit into the continuum of EPS; and how this sub-group of the wider...

~~...or government communications channels.~~ It is also important to note that very often, card-based **payment** systems (such as credit, debit or charge cards), are also defined as retail-based electronic **payment** systems. These card-based **payment** systems are mainly used with other types of EPS to maximise the benefits of electronic...

... to successful IPS development, since prospective IPS users frequently mention their concern about security of **payments** and financial information, such as card numbers and details. Since the Web was originally designed...

... publish information, additional security features are essential for commercial usage (particularly where this involves transmitting **payments** (Loshin, 1996). Bhimani (1996) also argues that strong security for **financial transactions** should satisfy additional criteria, including:

- confidentiality;
- authentication;
- data integrity; and
- non-repudiation of the transaction...

... can only be protected if banks or merchants are not able to trace back their **payments**. There are various ways in which the privacy of Internet users can be protected - but there is a conflict between consumers' right to privacy and regulators' desire to prevent illegal **financial transactions**. While consumers want to retain their privacy, some government bodies and organisations want to be...

...maintained unless the customer gives permission, or a government warrant is issued.

Types of Internet **payment** systems

An important issue for any researcher into IPS is: "why has the development of...

...recent years on the Internet; and why do so many organisations bother to develop new **payment** systems?" Fundamentally, the major reason for developing an IPS is that it provides organisations and...

... market" or "on-line shopping" (Crede, 1996). In other words, the provision of Internet-based **payments** is the last major barrier to the Web's ability to provide a true market...

... 1996) argue that electronic markets will benefit both companies and consumers:

- Companies will benefit from **virtual** markets because the concept of online shopping can make their **business** communication easier and cheaper.
 - Consumers will benefit because on-line shopping is convenient and saves ...category of its own in the interests of clarity).
- The principle of electronic cheque based **payment** systems is similar to that of the traditional paper cheque, the only difference being that...

...kept securely in the bank (Richards, 1996).

First Virtual Holding is a company providing secure **payment** systems over the Internet by means of a third-party electronic clearing house system. The...

... different approach again is provided by CyberCash, which enables Internet commerce by providing a secure **payment** system over the Internet. The CyberCash secure Internet **payment** service guarantees the security of any **financial transaction** through secure communications between consumers, merchants and banks (CyberCash, 1996). Three separate programs are used to ensure security of the **payments** :

- (1) consumer software;
 - (2) merchant software; and
 - (3) operating software which is part of the...
- ...called the CyberCash Wallet and is the key component of the system:
- to make a **payment** using CyberCash, consumers must link their credit card details to wallet ID;
 - once this link...

...CyberCash;

- CyberCash reformats this message and sends it to the bank for approval;
- when the **payment** is approved by the bank, CyberCash notifies the merchant;
- finally, the merchant will send an...

... 56-bit DES encryption and digital signature features are used to secure messages during the **payment** approval process (CyberCash, 1996) which, according to Loshin (1996), takes only around 15 seconds to...

...browsers and most server platforms. Crede (1996) believes that CyberCash is a more cost-effective **payment** system than credit card based systems. Card based systems

We have used this term to...

... for a transaction, although some proposals require special reading devices in order to transmit the **payment** directly over the Internet. The great advantage of this approach is that it allows consumers...

...problem, MasterCard and Visa co-operated to develop a technical standard for safeguarding credit card **payments** in February 1996 (MasterCard, 1995; Visa International, 1996). This new specification is called secure electronic **transactions** (SET) and ensures the security and privacy of personal and **financial** information by adopting digital signatures and public-key encryption technology. SET also uses digital certificate...the existing network of ATMs so that cash can still remain the predominant form of **payment** transaction (Crede, 1996). To be able to make **payments** directly over the Internet you need special software and a smart card-reading device. Values...

... smart card-based systems with electronic cash based systems to increase security and portability for **payments** over the Internet. The Mondex card is an electronic cash smart card. As Panurach (1996...

... an electronic token equivalent to cash. According to DigiCash (1994), Ecash is designed for secure **payments** from any personal computer to any other workstation, over e-mail or the Internet. An...

... Ecash is anonymous, hard to forge and prevents criminal usage. DigiCash ensures the security of **financial transactions** and the privacy of customers by applying public key encryption, digital signature techniques and blind...

... and their vendors use EDI to exchange many business-related documents such as purchase orders, **invoices**, shipping notices, and **payments** to cut costs and run the business more efficiently. Financial EDI involves the electronic exchange of financial documents such as **payments** and remittance advices in a standard format which computers can read (Bank of America, 1996...

...Security, Inc.

Micropayment-based systems

Micropayments are small-value transactions and comprise the majority of **payments** on the Internet at present (Glassman et al., 1995), since many information goods (such as and Micro **Payment Transfer Protocol (MPTP)**).

As an example of how these protocols work, Millicent is a secure...

...of the Internet since its commercialisation has provided the impetus for the many new Internet **payment** systems currently available or under development, because it became apparent very quickly that traditional **payment** methods would not suffice for this new electronic marketplace. In the early stage of IPS...

... At this stage, it is difficult to evaluate how reliable these IPS are because a **payment** system requires more than security alone to be really effective. The remainder of this paper...

... research project which this paper describes was intended to identify common effectiveness criteria for Internet **payment** systems. But before these criteria could be identified, it was necessary to define two subsidiary objectives:

- (1) Who are the main parties involved with Internet **payment** systems?
- (2) What are the effectiveness indicators, according to each party involved in an Internet **payment** system?

After careful examination of several research methodologies, including in-depth case study and survey...questions:

- (1) In your opinion, what are the major parties directly involved with an Internet **payment** system? Please identify and discuss each of the parties in moderate detail.
- (2) When you...

... a key player, although some IPS provide services without the direct involvement of financial institutions. **Payments** must be cleared by financial institutions regardless of how much they are involved in the...

... monopoly on consumers' confidence regarding their money. To maintain their position as a centre for **payments**, financial institutions are taking advantage of the opportunity to develop collaboration between IPS developers and...

... SET from MasterCard and Visa International), the IPS providers are generally third parties which establish **transactions** between **financial** institutions (banks and NBFIs) and end-users (merchants and consumers). At this stage, IPS providers...

... conventional and information-based) directly to consumers over the Internet, using an IPS to manage **payments**. Merchants' main requirement is for a reliable and low-cost IPS, since Internet vendors are...

... provide secure transactions over the Internet, a large proportion of consumers still believe that making **payments** over the Internet is a dangerous activity. Apart from ensuring the security of their **payments**, consumers are also looking for IPS that are reliable, cheap and widely accepted by a...

... including the impact of the IPS concept on the money supply, ways of tracking tax **payments** in cyberspace and the need to protect consumer rights and the public interest. At this...

... protect the public interest. For instance, law enforcement wants to be able to trace back **payment** transactions to track illegal activities, but this requires consumers to sacrifice some of their entitlement to privacy.

- Network providers. These parties provide the physical support infrastructure for Internet **payment** systems, including IPS software, hardware and telecommunications facilities.

Effectiveness indicators for IPS

Restating question 2...of the first round include:

- Ability to allow refunds: merchants should be able to refund **payments** to clients if necessary.

- Ability to support both on-line and off-line activity: allows...

...and throughout the day.

- Duration of transaction process: the time it takes to approve the **payment** (transaction delay must be minimised as far as possible).

- Ease of use (convenience): the IPS...

...of systems to gain competitive advantage over competitors.

- Irrefutability: the ability to ensure that the **payments** cannot be refuted or disproved.

- Legal certainty: **payments** made using an IPS must be legally accepted.

- Low fixed costs: costs (including set-up...

...just like a cash transaction).

- Portability (remote access): the ability to allow consumers to make **payments** from a variety of locations using a range of different interface devices.

- Privacy: the ability...

... Anonymity and privacy are frequently treated as being identical. There is no doubt that anonymous **payment** can provide a perfect solution for consumer privacy, but this is the area in which...

...being used and the level of government control. If consumers are looking for relatively small **payments** (say less than \$1 in value), the speed of the transaction might be more important than the level of security. Conversely, if the **payment** is large (say more than \$100 in value) security will probably be more important than...1) Consider small and medium-sized enterprises (SME) rather than large enterprises.

- (2) Consider direct **payments** from consumers to providers of goods and services.

Table II summarises the results of the...

~~...rankings are likely to change, just as they do in the case of any other payment system:~~

- The results clearly indicate that security and reliability (trustworthiness) are major effectiveness indicators for almost all groups.
- **Financial** institutions need to be able to authenticate individual **transactions** in terms of payer and payee, to avoid putting themselves at risk. They would also...

...costs discourage consumers from using the system.

- Consumers are more concerned with security of their **payment** details and low transaction costs. To make an IPS attractive to consumers, it must not be more expensive than traditional **payment** systems (unless the system is so convenient that consumers are willing to offset the higher...

... has become a most popular market medium for Internet commerce. By extending variations on traditional **payment** systems into this new electronic marketplace, consumers and organisations have begun to develop a number of new **payment** systems specifically oriented towards Internet commerce. In the early stage of IPS development, security was...

... research project which attempts to identify effectiveness factors for the various parties involved in Internet **payments** systems, using a Delphi survey to gain the views of recognised experts in the field...

... a number of factors, such as what consumers are looking for and what kinds of **payments** are being made. However, for the purposes of this study, general effectiveness indicators were identified...

... the scope of this paper. These issues relate not only to technical aspects of Internet **payment** systems, but also to their political aspects (and include the following concerns:

- It is very...

... How can a company impose a legal obligation on a customer using electronic ordering and **payment** ?

- To what extent should anonymous **payments** be allowed for the consumer? Government agencies are responsible for managing the movement of money **payments** raise another important issue, that of criminal money laundering. Hettinga (1996) stated that money laundering...

... the corruption of entire societies. One clear argument made by Richards (1995) is that anonymous **payments** should only be allowed for small transactions, rather than large ones, to gain wide acceptance...

... This paper has attempted to identify those factors which most encourage effective and efficient Internet **payment** systems. While this research project was only a "pilot" for the development of such indicators...

... Crede, A. (1996 "Electronic commerce and the banking industry: the required and opportunities for new **payment** systems using the Internet", The Journal of Computer-Mediated Communication, Vol. 1 No. 3. 5...

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... Computing (Information Systems) Honours degree. My research involves an analysis of efficiency criteria for Internet **payment** systems (IPS) - where IPS is defined as:"

any conventional or new **payment** system which enables **financial transactions** to be made securely from one organisation or individual to another over the Internet."

I...

...contains the first-round questionnaire. For the purposes of this study I define term "Internet **payment** systems (IPS)" as "Any conventional or new **payment** system which enables **financial transactions** to be made securely from one organisation or individual to another over the Internet". Some...

...Millicent, etc.

Q1 In your opinion, what are the major parties directly involved with Internet **payment** systems? Please identify and discuss each of the parties in moderate detail (a maximum of...

... effectiveness, fungibility, universality, security, privacy, anonymity, reliability (trustworthy), low fixed cost, acceptability, portability, scalability, low **transaction** cost, transferability, obtrusiveness, duration of **transaction** process.

Sample answer. **Financial** institutions: flexibility (ability to allow different kinds of **payment** mechanisms); scalability (ability to decentralise systems as much as possible to avoid bottlenecks); IPS providers...

... hardware, software, opening account and annual account cost); flexibility (ability to allow different kinds of **payment** mechanisms. Consumers: fixed cost (costs of hardware, software, opening account and annual account cost); anonymity...

...and medium sized enterprises (SME) rather than large enterprises.

Caption: Figure 1; Types of electronic **payment** systems; Table I; Effectiveness indicators for Internet **payment** systems; Table II; IPS effectiveness indicator ranking

...DESCRIPTORS: **Payment** systems

34/6,K/2 (Item 2 from file: 15)
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02030365 54854972

USE FORMAT 9 FOR FULL TEXT

Interoperation support for electronic business

Jun 2000 LENGTH: 9 Pages

WORD COUNT: 5309

...TEXT: pertains to such matters as requests for quote, bids, purchase orders, order confirmations, shipping documents, **invoices** and **payment** information. In this way multiple enterprises within a shared market segment collaboratively plan, implement, and...

... although ordering and distribution of goods can be fast, the supporting accounting and inventory information, **payment**, and actual funds transfer-which require communication of business processes with business application systems-tends...

... which typically relies on database support, is an accounts receivable system that keeps track of **invoices** sent and **payments** received. This time-lag and the decoupling of accounting and **payment** information systems from the ordering and delivery of goods and service (business) processes, increases the...

... consuming reconciliations. Ideally, an e-commerce application should eliminate the gaps between ordering, distribution, and **payment**, enabling the development of interoperable links to record-keeping and accounting information systems.

Figure 1...

... Inter-trading is effected through the exchange of messages containing standard business objects, such as **invoices**, purchase orders, or electronic funds. EDI is prevalent in industries such as goods transportation, food...

...value chain. This avoids creating islands of automation in the operation of an end-to-end **business** process by encouraging networks of highly efficient **virtual** organizations that will challenge the conventional **business** paradigm.

Interoperability in the context of e-commerce and integrated value chains is driven by... transaction service layer. This layer provides flexible transaction support for such services as funds transfer, **payment**, billing and accounting services, invoicing, remittance, debit/credit and models contingency, exception, and remedial facilities... interoperability challenge places particular emphasis on integration at the transaction level and not on data **integration**, replication, and batch transfers of data. In addition, the **virtual** nature of the e-commerce end-to-end **business** processes requires business rules and transactions be available to partners for incorporating within their own...long-lived propositions involving negotiations, commitments, contracts, floating exchange rates, shipping and logistics, tracking, varied **payment** instruments, exception handling, and customer satisfaction. Business transactions are used to

interchange everything from product...

... by unconventional types of atomicity. We may distinguish between four broad types of atomicity [11]:

Payment atomicity. ~~Payment -atomic protocols effect the transfer of funds from one party to another.~~ **Payment** atomicity is the basic level of atomicity that each electronic commerce protocol should satisfy

Goods atomicity. Goods atomicity protocols are **payment** -atomic, and also allow an exact transfer of goods for money.

Delivery atomicity. Delivery-atomic protocols are **payment** - and goods-atomic protocols that allow both transacting parties to prove exactly which goods were...

... protocols that include the exchange of financial information services and the exchange of bills and **invoices**. Thus **payment** -atomic protocols must also be contract-- atomic.

In the world of e-commerce, traditional database...

...Generic characteristics:

Who is involved in the transaction;

What is being transacted;

The destination of **payment** and delivery;

The transaction time frame; and

Permissible operations.

2. Special purpose characteristics:

*Links to...

...be able to express varying types and extents of business commitments.

Network Security Services

Protecting **financial** data in transit, communications, and securing the entire e-commerce **transaction** process are critical concerns. A number of improvements have been made in network protection technology...to address these concerns is the development of a secure electronic transaction specification for credit/ **payment** card transactions over the Web.

The Secure Electronic Transaction (SET) protocol (www.setco.org) was developed jointly by **payment** card companies, specifically Visa and MasterCard, and software manufacturers. SET offers advancements in Internet specifications...

... and uses aspects of a public key infrastructure. The SET specification is designed to enable **payment** security for all involved, authenticate cardholders and merchants, provide confidentiality of **payment** data, and define protocols for potential electronic security service providers. Currently, IBM and VeriFone are...

... transaction costs. The NetBill e-commerce system (www.ini.cmu.edu/netbill) is an electronic **payment** negotiation framework that was developed to support economical, secure sales of low-cost goods. The...

... a message. These tasks fall well within the premises of contract formation and enforcement.

Secure **Payment** Mechanisms

Currently, numerous merchants are successfully conducting business on the Internet using HTML/XMLbased forms...

... situation by ~~assisting consumers in conducting online transactions~~ by allowing them to store billing, shipping, **payment**, and preference information and to use this information to automatically complete merchant interactions. Electronic wallets...

... to fill in their Web forms. ECML can be used in conjunction with any secure **payment** mechanism, for example, SET transactions, to allow a merchant to publish consistent and simple Web...documents being exchanged during e-commerce and for describing metadata structures of electronic wallets and **payment** schemes.

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34/6,K/3 (Item 3 from file: 15)

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****USE FORMAT 9 FOR FULL TEXT****

E-trading easier and cheaper for corporates

Feb 2000

WORD COUNT: 2683

...ABSTRACT: are promising to save corporates costs and execution time on FX, commercial paper and other **financial transactions**. A range of new developments online is discussed, including business-to-business trading. There are...

...TEXT: are promising to save corporates costs and execution time on FX, commercial paper and other **financial transactions**. Jack Large reviews a range of new developments online, including business-to-business trading.

With...For most business-to-consumer transactions on the Internet where the amount is relatively low, **payment** is by credit card. The supplier has the transaction approved by the card issuer and the **payment** is guaranteed. But it is not so easy in high-- value business-to-consumer transactions and business-to-business transactions, with **payments** ranging from thousands to many millions of dollars. Quite complex credit and financing decisions may...

... level. It brings together all the participants in the credit and financing process in a **virtual** network that facilitates e- **business** on a global basis."

The corporate user of Global Financing Network installs eCredit.com application... only a browser and Internet access for businesses large and small to transact their business. **Payments** can be made only through Bank of Montreal in Canada and Harris Bank in Chicago...

...TotalTrade do not need to be a customer of either bank to participate in the **payment** facilities.

An example of a process that can be enabled by TotalTrade is the whole...

... company and its smaller trading partner conduct the entire trading process from purchase order to **payment** through a single access point.

In the above example TotalTrade enables both payable and receivable...

... firm's internal file format, enabling direct loading into its system without re-keying.

* An **invoice** is sent by the supplier to TotalTrade, where it is converted into another easy-to-use e-form for the customer.

* The **invoice** is approved by the customer, and this launches the creation of an electronic **payment**.

* Money is directly deposited into the supplier's bank account with the remittance information returned...

34/6,K/4 (Item 4 from file: 15)
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USE FORMAT 9 FOR FULL TEXT

E-commerce: Dispelling the myths and exploiting the opportunities
Dec 1999 LENGTH: 5 Pages
WORD COUNT: 4295

...TEXT: yet to make a profit despite phenomenal turnover.

However, to use this as the typical **business** example is misleading. Non-**virtual** companies, such as Dell, have successfully combined e-commerce opportunities with their existing business, increasing...

... 1 information sharing; informing and interacting internally and with third parties;

2 transacting; purchasing and **payment** transactions with third parties;

3 the service and support proposition; integrating customers and suppliers into...come from the US market.

* Shopping malls

Some ventures have unsuccessfully tried to transfer existing **business** models to the web, for example, by setting up a **virtual** shopping mall. The main reason for their limited success is that the web allows users...

... would direct the customer to the Walt Disney site, rather than to a general retailer.

* **Payment**

The lack of public confidence in electronic **payment** systems is considered as one of the main factors constraining business to consumer e-commerce...

...shortening the production cycle.

* Customer ordering

An extranet can allow customers to place orders, receive **invoices**, track shipments and process **payments**. Boeing, in the USA, launched its on-line spare parts extranet in October 1996; 2...

... low cost per transaction when compared to other channels, and the reduction in paper based **transactions**.

* Low cost channel

The average cost per **transaction**, for a **financial** services provider, is greatly reduced when using internet technologies.

* Paperless sourcing from suppliers

The switch... the security threats that companies face and the solutions which may overcome these threats:

* Secure **payment** methods

The issue of transacting business over the internet is contentious. The main reason for...

...slow development of technology to conduct secure e-commerce transactions has been the lack of **payment** systems. However, recent advances in security techniques have made internet **payment** transactions safer than other methods such as telephone credit card **payments** or paper-based cheque signatures. Developments include the Secure Electronic Transfer (SET) standards now in...

...of investment

The initial costs for the company includes design of the web site and **payment** to the internet Service Provider (ISP). Costs can vary greatly depending on both the level...

34/6,K/5 (Item 5 from file: 15)

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01706953 03-57943

USE FORMAT 9 FOR FULL TEXT

E-commerce takes off

Oct 1998 LENGTH: 3 Pages

WORD COUNT: 2084

...TEXT: sales online with consumers or businesses.

Large companies have been building private networks called VANs (virtual private networks) for more than two decades to link with **business** partners such as suppliers and contractors. But small companies couldn't justify doing business electronically...

...using IBM's Net.Commerce e-commerce technology. Net.Commerce will enable EarthSavers to process **financial transactions** between contractors and suppliers. An IBM database program will maintain pertinent information on contractors, customers make **financial transactions** and exchange documents such as purchase orders, product specifications, and **invoices** -all electronically.

In the past two years, however, large companies have begun to move some...
... to access secure Web sites, where they can bid on contracts, receive orders, and send **invoices**.

Among the small companies that have discovered that their largest trading partners expect them to...

... the TradeWeb Web site and enters them into its accounting system. It then generates an **invoice** using a template developed by Chrysler. Once a month, A&M sends its **invoices** to Chrysler over the Web. A&M pays \$50 a month to subscribe to TradeWeb...

... and manager of the EDI system. Previously, A&M received orders from Chrysler and sent **invoices** through the mail. Trimboli says it took up to three months for the company to receive **payments**.

(Illustration Omitted)

Captioned as: Commercial Sales Via The Internet

By trading over the Web, A...

...says. "The turnaround time is much faster, and if there are any problems with an **invoice**, they contact us right away through e-mail, and I can immediately turn around and...

...s requests for quotes and places bids electronically. In addition, Lancaster receives orders and sends **invoices** via the Web. Harbinger charges Lancaster a monthly subscription fee and \$1.50 for each...

...and Lancaster are three time zones apart, so when the two companies were using paper **invoices**, Raytheon had to wait until Lancaster opened for business before it could fax purchase orders...

34/6,K/6 (Item 6 from file: 15)

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01579791 02-30780

****USE FORMAT 9 FOR FULL TEXT****

Attention virtual shoppers: VARs are becoming increasingly equipped to deploy Web-based business sites

Fall 1997 LENGTH: 4 Pages

WORD COUNT: 1763

Attention virtual shoppers: VARs are becoming increasingly equipped to deploy Web-based business sites

...TEXT: umbrella term for an entire spectrum of activities such as electronic data interchange (EDI), electronic **payment** systems and order management. It also includes business application linking solutions in both business-to...

... provides a set of computerized forms that automate common business transactions such as purchase orders, **invoices**, shipping notices and requests for proposals. Traditional EDI, which is based on private value-added...to the Internet Engineering Steering Group (IESG) for review.

Visa, MasterCard, American Express and leading **financial** institutions have endorsed both TSL and Secure Electronic **Transaction** (SET) as Internet standards. The SET standard is a method to secure bankcard transactions on...

34/6,K/7 (Item 7 from file: 15)

DIALOG(R) File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

01421964 00-72951

****USE FORMAT 9 FOR FULL TEXT****

Logistics and information technology: A coordination perspective

1997 LENGTH: 17 Pages

WORD COUNT: 5555

...TEXT: in order to create better information, which in turn should support lower inventories and improved **financial** performance. But the evolution of IT and diminishing **transaction** costs will also lead to a fundamental restructuring of industry practices for distributing and supporting...

... and the flow of information related to those goods, such as purchase orders, waybills, and **payments**. The nodes or decision-making points linking the points represent the different participants, such as...sample. A bank affiliated with the on-line network extends credit if needed and

1997

electronically **invoices** the engineer's department. In turn, an EDI system pays the bill electronically. An express...

... or actual orders. Second, there is the order cycle itself, followed by distribution, receipt and **payment**. Third, supplier performance is evaluated and feedback provided. ~~As will be discussed below, the objectives~~ ... of conventional information gathering techniques through centralization has occurred; however, the paper-based system of **payment** has only begun to be converted to an electronic one.

As mentioned previously, Wal-Mart...

... of costs between the various logistics activities such as order processing, warehousing, shipping, delivery, and **payment**.³⁸ Each substructure has a different set of constraints and should be optimized independently.

The... 12 (December 1994): 41-50. 14 Jeffrey F Rayport and John J. Sviokla, "Exploiting the **Virtual** Value Chain," Harvard **Business** Review 73, no. 6 (November-December 1995): 75-85. ¹⁵Same reference as Note 14.

Footnote...

34/6,K/8 (Item 8 from file: 15)

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01300010 99-49406

USE FORMAT 9 FOR FULL TEXT

New trends in buying and paying

Sep 1996 LENGTH: 1 Pages

WORD COUNT: 905

...TEXT: agreements, association rules, and standards. It is used routinely to transact inventory order-related information.

Financial EDI and Electronic Funds Transfer (EFT) as part of **transaction** settlement are increasing in popularity. A customer will send an electronic remittance advice to its...

...advice to the supplier's financial institution. The supplier's financial institution will credit the **payment** to the supplier's account and forward the remittance advice to the supplier.

Significant time...

... transaction activity, reduced number of suppliers, reduced price for goods acquired through integrated suppliers, reduced **payment** activities, reduced labor time to acquire needed goods, and increased consistency in the quality of...

...employees.

Interet mails. The Internet is only beginning to gain acceptance as a vehicle for **business** -to- **business** transactions. **Virtual** malls, such as IndustryNet and MROP On-Line, bring manufacturers, distributors, and customers together in...

... daily company orders are compiled and transmitted via EDI to the supplier. The supplier can **invoice** purchases electronically, enabling the customer to match the order and **invoice** electronically for **payment** approval. For MRO buys, it is not cost-efficient to await matching of these documents...

...regard to receipt of MRO goods can be dealt with offline.

Direct debits. Some MRO **invoices** can be paid automatically by Automated Clearing House (ACH) transfers from the customer to the supplier's bank account. At present, "direct debit" programs are associated with insurance and utility **payments**.

Controllers are hesitant to use any **payment** mechanism that will transfer cash directly out of the company account when the amount to...

... number of leases with a major manufacturer of copier equipment. The company was receiving an **invoice** for every machine under lease. With a phone call, ITT Automotive was able to get the copier company to consolidate its billing into one monthly **invoice**. Although summary billing is effective in reducing paperwork, it probably won't be a comprehensive...

... outsourced. It is common, for example, for companies to let third-party operations handle freight **payment** processing. Some major commercial banks even provide the services necessary to handle all **invoice payment** activities.

34/6,K/9 (Item 9 from file: 15)

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01246602 98-95997

****USE FORMAT 9 FOR FULL TEXT****

Key elements of an effective international treasury system

May/Jun 1996 LENGTH: 4 Pages

WORD COUNT: 2101

...TEXT: between entities. Some of this movement is scheduled in the form of corporate loans carrying **payment** terms, including interest, but much is tied to the cash flow of an organization and...

... the objective for any truly effective international system must be to consolidate all of the **financial** information **transactions** and flows anywhere within the enterprise. All divisions, whether domestic, international or departmental, all operating...trends in corporate finance. These include, but are not limited to:

1. Government mandates that **payments** be electronic and that **invoices** be submitted electronically from vendors.
2. Transactions will be tracked more at the point of origination, with decision support coming from the use of a **virtual** database that can link all aspects of the **enterprise**.
3. The evolution of electronic cash movement to the elimination of checks and other forms of paper **payment** (and receipt), which are cumbersome, time consuming and expensive, especially with regard to reconciliation and ...

34/6,K/10 (Item 10 from file: 15)

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01175110 98-24505

****USE FORMAT 9 FOR FULL TEXT****

Integrated redesign solutions with electronic commerce

Jan/Feb 1996 LENGTH: 6 Pages

WORD COUNT: 2304

TEXT: **Financial** organizations, like Insignia, are constantly challenged

to apply innovative **transaction** processing solutions to enhance performance. Demand for quality from internal and external customers and suppliers...

... application that would overcome such objections and allow owners, or their designate, to initiate debit ~~transactions~~ by telephone.

Financial EDI

Insignia's use of electronic funds transfer (EFT) is not new on the cash...

...use of the automated clearing house (ACH) to transfer deposits, Insignia has been receiving subsidy **payment** from the Housing & Urban Development (HUD) agency for several years via the ACH in the...

... use of EDI to integrate the reporting and posting of the detail related to these **payments** directly to the accounts receivable system. This information is reported directly to Insignia by the banks. This application has reduced the processing cost per **payment** by more than 80 percent and the cycle time by over 50 percent. The result...

...a dramatic improvement in the company's ability to manage the initiation of time-critical **payments** such as utility billings, and mortgages.

Bar Coding

The use of bar coding was implemented...

... position by applying certain predefined "rules" to monitor available cash, required reserve balances, match predefined **invoice** priorities, and schedule disbursements appropriately. The system schedules **invoices** for **payment** based on a combination of the highest priority assignment, the oldest **invoice** date, and the oldest due date.

These decision-making "rules" represent a significant automation of the **payment** -initiation workflow process.

EFT

A major use of EFT, namely the ACH, involves the movement of funds from field deposit accounts to appropriate disbursement accounts in order to fund **payments**. As receipts are reported, they are automatically transferred into the banking system and the CMS...

... process. In early 1995, Insignia began taking advantage of CD-ROM technology to receive check **payment** detail. This simplified the company's research effort and information storage requirements. In late 1995...

... implemented in 1994, in an attempt to reduce escalating paper handling costs associated with processing **invoices**. This application focused on imaging's "Document Capture" element. **Invoices** received in the mail room are scanned and become resident on the imaging server. Accounts payable staff then have access to the imaging system to review **invoices** and process them for **payment** into the payables system. The original implementation plan anticipated annual savings in excess of 15...

... of FEDI became a necessity in 1995 as Insignia continued to grow. The volume of **invoices** escalated as did processing costs. Insignia viewed the implementation of FEDI from a strategic perspective...

...water, gas, and telecommunications were creating a paper quagmire.

The strategy was to accept electronic **invoices**, and originate electronic **payments** to partners. Criteria for assessing service providers included the following:

Banks

- * FEDI expertise
- * Comprehensive solutions...

...at reduced cost

- * Enhanced bank reconciliation process
- * Improved supplier relations

The importance of timely mortgage **payments** resulted in their early identification as an EFT application. In at least one case, the receiver was interested in receiving a paper document detailing the nature of the **payments**. However, Insignia's strategy was to avoid paper. As a solution, Insignia was able to have its banks take the related information from the originating ANSI 820 **Payment** Order Remittance Advice transmission and automatically generate the required fax. This solution met the partner...

...s national supplier purchases and reduce the time it takes a supplier to receive a **payment** by more than 90 percent.

Insignia's fiduciary responsibility to owners required its criteria for...

... of evolving electronic catalog technologies, develop a comprehensive solution covering purchasing, inventory control, and the **payment** process. When fully implemented, benefits will include:

- * Reduced processing costs
- * Improved control
- * Enhanced supplier relationships...

... to the network. This has improved productivity, and helped to control travel costs, as these " **virtual** " associates support the **business** . Insignia has expanded its use of E-mail externally to include selected employee access to...forms were implemented in 1995 for applications such as funds transfer initiations, journal entries, and **invoice** review. In addition, on-line approval of such transactions was implemented. The benefits of these...

... processing. In areas such as accounts payable, it also results in fewer supplier inquiries, as **payments** are processed faster, more accurately, and with fewer manual hand-offs.

Security

As with any...

34/6,K/11 (Item 11 from file: 15)
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00759577 94-08969

USE FORMAT 9 FOR FULL TEXT

A storage subsystem for image and records management

1993 LENGTH: 29 Pages

WORD COUNT: 13512

...TEXT: even more rapid.

Large and small objects. Object sizes range from about 1000 bytes for **financial transaction** records to 10 million bytes for technical

pictures. When digital video and audio libraries become...running Operating System/2* (OS/2*); library catalog servers execute either in mainframes running Multiple Virtual Storage/ Enterprise Systems Architecture (MVS/ESA*) or Multiple Virtual Storage/Extended Architecture (MVS/XA*) with Customer Information Control System (CICS*) and DATABASE 2* (DB2... library catalog. For instance, a highway department might have an independent database relating maintenance contractor **invoices** to bridge numbers; a query join would permit a search for "inspection reports of bridges... data administrators, to their proper activities, and differentiation of user roles from individuals (e.g., " **payments** office manager" instead of "Jane Doe")

* Proxy support, in which a human user acting for...

34/6,K/12 (Item 1 from file: 16)

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07381531 Supplier Number: 60578516 (USE FORMAT 7 FOR FULLTEXT)

PRODUCT SUPPORT/ADMINISTRATION. (Buyers Guide)

Jan, 2000

Word Count: 27831

... Texas

Instruments, WANs, DOS, Lantastic (Artisoft), Netware (Novell), Windows NT, Windows 95, Windows 98
Secure **payment** processing with MICR check printing software. Includes electronic **payments**, positive pay, bank reconciliation and 1099 processing modules.

SunGard Insurance Systems
500 Northridge Rd., Ste...

...centralized check writing and EFT

issuing system for all disbursements across the enterprise, including claim **payments**, agent commissions, **invoice payments**, and on-demand checks. Functionality includes repetitive **payments**, accounts payable, check writing 1099 tracking and more.

Accounting - GAAP

NaviSys

1600 S. Brentwood Blvd...channels. Client-orientation supports multiple contracts and hierarchies, complete compensation support, consolidates commission statements, flexible **payment** schedules, multiple company support, on-line commission statement and history and year 2000 compliant.

Multiactive...including support

for an unlimited number of equity and fixed funds, allocates incoming and outgoing **payments** and handles requested and automatic transfers including dollar cost averaging, portfolio balancing, and earnings sweep...

...navisys.com

LifeCAD Payouts

IBM PCs, Intel, LANs, Windows NT, Oracle

LifeCAD Payouts supports repetitive **payment** products in a distributed computing client/server environment. Includes a built-in import function to...

including support

for an unlimited number of equity and fixed funds,
allocates incoming and outgoing **payments** and handles
requested and automatic transfers including dollar cost
averaging, portfolio balancing, and earnings sweep...

...including support

for an unlimited number of equity and fixed funds,
allocates incoming and outgoing **payments** and handles
requested and automatic transfers including dollar cost
averaging, portfolio balancing, and earnings sweep...including support
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allocates incoming and outgoing **payments** and handles
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averaging, portfolio balancing, and earnings sweep...com

LifeCAD Payouts

IBM PCs, Intel, LA, Ns, Windows NT, Oracle

LifeCAD Payouts supports repetitive **payment**
products in a distributed computing client/server
environment. Includes a built-in import function to...

5700, 888/231-8258

Fax: 512/338-7041

Web Address: <http://www.csc.com>

Repetitive **Payment** System (RPS)

The most widely used benefit **payment** administration
system. Online, real-time, advanced capabilities to
handle annuity and bank products as they...

...760-1400

Fax: 404/760-1419

Web Address: <http://www.derivion.com>

Electronic Bill Presentment & **Payment** - inetBiller((SM))
Derivion's suite of turnkey Internet billing services,
inetBiller((SM)), offers very rapid...

...setting up the interfaces to an existing billing
system, presenting the bills, enabling on-line
payment options, promoting the service, and
launching the process of enrolling customers.

Fiserv SIS

750 Hammond...com

FREEDOM Billing Series

IBM Mainframes, IBM MVSIMVSIVSE

Automated for direct, account and list billing. **Payment**
methods include on-line entry, EFT, payroll deduction,
Lockbox, OCR and credit card. Billing frequency...

...Novell), OS/2,

Windows NT/95

TravisGroup Billing produces all types of group benefit
premium **invoices**, including list billing. Designed for
use by administrators offering "one check" services to
employers and...100,000 items and non-database items into a claim file
for final settlement and **payment**.

Fiserv SIS

750 Hammond Dr., Bldg. 19, Ste. 200,

Atlanta, GA 30328-5501

Contact: Louise...

...Windows 98

Handles liability, auto and property. Includes: Loss reporting, loss, expense and medical reserving, **payments**, reserve, e-mail and **payment** history, diary with history, recovery litigation, ad-hoc reporting, mail merge, import/export capabilities and...to use with full enrollment, billing, agent commissions, claims tax and miscellaneous deductions, and repetitive **payment** features.

Life Insurance Data Processing
3590 Hobson Rd., Woodridge, IL 60517
Contact: Bill Bussell
630...today which provides real-time access to millions of current conventional and government mortgage loan **transactions** nationwide.

McCracken **Financial** Software
8 Suburban Park Dr., Billerica, MA 01820
Contact: Kim Cooper
978/439-9000, 800...0892
Email: ymcdonald@prccorp.com
Web Address:
<http://www.webmaster@prccorp.com>

GEN-A-RATE, **Virtual** Policy
GEN-A-RATE software offers unparalleled **business** functionality for rating and policy issuance for all major lines of business in all 50...0892
Email: ymcdonald@prccorp.com
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<http://www.webmaster@prccorp.com>

GEN-A-RATE, **Virtual** Policy
GEN-A-RATE software offers unparalleled **business** functionality for rating and policy issuance for all major lines of business in al) 50...

...and others

using a secure Internet plat-form. Service includes first reports, bills, messages and **payment** outsourcing.

USA Systems Group
P.O. Box 2740, Sarasota, FL 34230
Contact: Sharon Statdfield
941...

34/6,K/13 (Item 2 from file: 16)
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05096100 Supplier Number: 47482118 (USE FORMAT 7 FOR FULLTEXT)
Users wade through electronic-commerce market
June 23, 1997
Word Count: 2181

... the low end is online-store software offered from vendors such as America Online, Viaweb, **Virtual** Spin, and CommerceWave.

Business -to- business needs are the most demanding, and, accordingly, applications offer capabilities that go well beyond the product catalog, shopping cart, and "hooks" into back-end credit-card **payment** and fulfillment systems found in popular e-commerce applications. In particular, they allow organizations to...custom [storefront] templates, create live links and incorporate shopping cart functions, or pass variables to **payment** processors," Melnyk explains.

PUSHING THE LIMITS. Richard Warren, vice president of information services at Judd...

...company's president. Specifically, the company needed a product that supported CyberCash's secure electronic- **payment** system.

"It was our bank [Wells Fargo], where we have our merchant [credit-card] account," Betts says, "that led us to CyberCash."

It provides a secure, encrypted, Internet credit-card **payment** system. When the company first looked at going online with its catalog, it tried to...provide capabilities that tie the front-end buying processes to the back-end accounting and **financial** systems.

In a typical consumer-to-business **transaction**, for instance, a single buyer generally pays for goods with a credit card. In the...

...however, the e-commerce application must handle multiple transactions -- probably involving multiple buyers -- purchase orders, **invoices**, and other forms, which may need to be handled electronically, thus requiring electronic-data-interchange...

34/6,K/14 (Item 1 from file: 148)

DIALOG(R) File 148:(c)2004 The Gale Group. All rts. reserv.

12122967 SUPPLIER NUMBER: 59608140 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Dispelling the myths and exploiting the opportunities.(importance of correctly understanding electronic commerce)

Dec, 1999

WORD COUNT: 4567 LINE COUNT: 00397

... yet to make a profit despite phenomenal turnover.

However, to use this as the typical **business** example is misleading. Non- **virtual** companies, such as Dell, have successfully combined e-commerce opportunities with their existing business, increasing...

...1 information sharing; informing and interacting internally and with third parties;

2 transacting; purchasing and **payment** transactions with third parties;

3 the service and support proposition; integrating customers and suppliers into...come from the US market.

* Shopping malls

Some ventures have unsuccessfully tried to transfer existing **business** models to the web, for example, by setting up a **virtual** shopping mall. The main reason for their limited success is that the web allows users...

...would direct the customer to the Walt Disney site, rather than to a general retailer.

* **Payment**

The lack of public confidence in electronic **payment** systems is considered as one of the main factors constraining business to consumer e-commerce...

...shortening the production cycle.

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...of investment

The initial costs for the company includes design of the web site and **payment** to the internet Service Provider (ISP). Costs can vary greatly depending on both the level...

34/6,K/15 (Item 2 from file: 148)

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09095954 SUPPLIER NUMBER: 18860872 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Are corporate procurement cards for you? (includes related article on buying and paying trends)

Sep, 1996

WORD COUNT: 6654 LINE COUNT: 00548

... providing P.O. copy to the supplier, filing and internally distributing P.O. copies, resolving **invoice** differences, and closing the order when the transaction is completed.

Accounts Payable - receiving, sorting, matching, filing, and entering data relating to receiver, **invoice**, and purchase order; routing/re-routing of **invoices** for approval and account coding, expediting **invoices** with discounts, managing backorder suspense files, preparing end-of-month accruals, setting up new vendors...

...for sundry items, and reimbursing petty cash; all check-writing activities including check processing, matching **invoices** to checks, obtaining or imprinting signatures, filing, and mailing.

Production/Other - Completing requisitions and obtaining...

...cardholders experience a sense of trust and empowerment;

* Supplier goodwill is increased because suppliers collect **payment** for CPC purchases in fewer than three business days; and

* CPCs yield other spin-off...and modifications to internal business controls.

For example, most large companies have automated ordering and **payment** systems in place for high-dollar inventory purchases. Hence, CPCs are neither appropriate to the...all receipts - even if the purchase was made on a CPC - because hard copies of **invoices** help the revenue agency determine whether the correct sales tax rate was applied to the various line items on the **invoice**. Level II data include only the total sales tax amount for the transaction and not...made.

Modifications to the present system. Two activities will change for most users: receiving and **invoice** processing. Most companies using CPCs require suppliers to label all documentation resulting from card transactions...

~~...the goods to the internal mail operation.~~

Companies also must ask suppliers to stop sending **invoices** for CPC purchases or at least not to send the usual types of **invoices**. (18) If this change is not made, accounts payable employees will waste time and effort trying to match the **invoices** to receiving documents and purchase orders and possibly create a duplicate **payment**.

LEADING THE WAY

N.R. Stewart recently suggested that, for accountants to maintain viability and...

...full-scale electronic commerce, including Intranet-based internal requisitioning processes and Internet-based acquisition and **payment** for needed goods. But CPCs are low-risk, low-cost tools that dramatically alter and...

...Schmidt, and J. Jordan-Wagner, "Corporate Purchasing Cards: The Reengineered Future for Non-Inventory and **Payment**," Journal of Cost Management, Fall 1996.

3 Card distribution policies are affected by certain control...

...in tracking charges for shorted shipments, returns, and allowances.

13 See T. Trautman, "Trends in **Payment** Processing: Using Plastic at Cummins Engine," TMA Journal, July/August 1995, pp. 16-19.

...agreements, association rules, and standards. It is used routinely to transact inventory order-related information.

Financial EDI and Electronic Funds Transfer (EFT) as part of **transaction** settlement are increasing in popularity. A customer will send an electronic remittance advice to its...

...advice to the supplier's financial institution. The supplier's financial institution will credit the **payment** to the supplier's account and forward the remittance advice to the supplier.

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...outsourced. It is common, for example, for companies to let third-party operations handle freight **payment** processing. Some major commercial banks even provide the services necessary to handle all **invoice payment** activities.

Richard J. Palmer, CPA, is the Hardy-Graham professor for the department of accounting...

34/6,K/16 (Item 3 from file: 148)
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08104987 SUPPLIER NUMBER: 17336065 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Virtual Vineyards Takes the Fear out of Electronic Commerce; Becomes First Internet Retailer to Incorporate Non-Proprietary Payment Technology for World Wide Web.
Sep 5, 1995
WORD COUNT: 791 LINE COUNT: 00082

...Takes the Fear out of Electronic Commerce; Becomes First Internet Retailer to Incorporate Non-Proprietary Payment Technology for World Wide Web.

TEXT:

LOS ALTOS, Calif--(**BUSINESS WIRE**)--Sept. 5, 1995--Leading the charge among Internet retailers, **Virtual Vineyards** (<http://www.virtualvin.com>) today announced that online shoppers using any World Wide Web...

Participating as a beta test site for CyberCash's Secure Internet **Payment** Service since early April, Virtual Vineyards became the first Internet retailer to accept encrypted credit...

...the electronic gap between the online community and the banking system is critical in establishing **Virtual Vineyards** as a reliable and credible Internet **business**," said co-founder and master sommelier Peter Granoff. "Now that **Virtual Vineyards** offers the CyberCash service, **payments** are not only secure for each consumer, but clearances for transactions are accomplished automatically. CyberCash reduces the cost and complexity of **payment** transactions on the Internet, allowing us to build loyalty and trust with our customers."

"Virtual Vineyards recognized the value of complete end-to-end security and automatic authorization when accepting **payments** on the Internet," said Magdalena Yesil, vice president of marketing, CyberCash. "With cost-effective **payment** solutions, industry experience and valuable products and service, **Virtual Vineyards** has set an example of establishing a **business** successfully online. As its business expands to include gourmet foods in addition to wine, CyberCash will also grow to accept cash and coin **payments**, as well as credit cards."

Ordering Wine is Easy

Ordering wine from Virtual Vineyards is...

...that is shipped to the recipient with the order.

Customers are offered four methods of **payment**. They can send in a check or transmit their credit card information via fax, a toll-free phone number or directly over the Internet using CyberCash's Secure Internet **Payment** Service.

How CyberCash **Payment** Works

To conduct a secure **payment** transaction consumers download the free client software by clicking on the CyberCash icon displayed on...

...form once, a user need never fill it out again and can now spontaneously make **payments** with confidence that all transactions will be secure and

private.

Once customers decide to make a purchase, they are presented with an online **invoice** detailing the purchase information and a statement confirming the total charges. The consumer then clicks...

...reviewing the order summary, the customer clicks "PAY" to send the forms and the encrypted **payment** information to Virtual Vineyards. Virtual Vineyards then adds identification information and forwards the **payment** data to the CyberCash server. The CyberCash server then initiates a standard credit card authorization...

...Founded in 1994, CyberCash works with financial institutions to provide safe, convenient and cost-effective **payment** service for the Internet. CyberCash facilitates the purchase of goods and services on the Internet...

...between consumers, merchants, and their banks as well as between individuals. Consumers can now perform **financial transactions** on the Internet efficiently and with complete confidence. For more information contact Cybercash at 800...

34/6,K/17 (Item 1 from file: 275)

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02069436 SUPPLIER NUMBER: 19414140 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Electronic commerce. (Technology Information)

May, 1997

WORD COUNT: 5838 LINE COUNT: 00478

...ABSTRACT: Several companies are using electronic clearing systems from such companies as First Virtual to handle **payments** over the Internet.

... their target audiences and shareholders.

A seemingly endless array of applications is emerging in the **virtual** marketplace, where **business** is conducted on the Internet. These applications include the ability to initiate and consummate transactions... technological underpinnings of the on-line commercial marketplace include four critical segments: certification authority, electronic **payment** products, electronic **payment** vehicles, and electronic **payment** services. Let's concentrate on certification authority.

CERTIFICATION AUTHORITY

Digital certificates authenticate the identity of...Secure Sockets Layer (SSL)

* Diffie-Hellman

* Kerberos

* Identification and Authentication (X509v3)

* Privacy, (public key encryption)

* **Payments** (electronic document interchange (EDI), secure electronic transaction (SET)).

The SET protocol was developed jointly by...

...whether on the browser, server, or supporting network sides. The SET protocol addresses only the **payment** phase of the transaction, from the individual, to the merchant, to the acquirer (the merchant...

...standing; and the acquirer has a certificate that verifies that it is, in fact, the **financial** institution that should handle the **transaction**.

SECURE SOCKETS LAYER

The primary-goal of the SSL protocol is to provide privacy and... functionality because the key that A and B share only encrypts messages using conventional cryptography.

PAYMENT CLEARING SYSTEMS

A number of companies are establishing electronic clearing systems in an attempt to overcome the security issues involved in handling **payments** on the Internet. Some of these clearing systems don't pass credit card information over the Internet, although others ensure privacy over the

Internet. Essentially, **payment** clearing involves a system of secure messages that permit the buyer and seller to communicate, while also permitting **payment** instructions to be sent via the message/ **payment** clearer, frequently using existing proprietary networks.

First Virtual (Santa Clara, CA) was formed to facilitate...

...using a buyer feedback mechanism built atop existing protocols.

In a nutshell, First Virtual's **payment** system is built on top of pre-existing Internet protocols, most notably the SMTP/ RFC...

...protocols are "insecure" (they have no strong means of proving identity), First Virtual designed a **payment** system that provides much stronger guarantees. competing companies have focused on achieving this goal using...

...Virtual designed a higher level protocol based on e-mail callbacks.

In a typical First **Virtual** scenario, a buyer and seller meet and decide to transact **business** in any manner they desire. Although this often occurs when a buyer browses a seller...

...with protocols that do not exist today). Once the buyer and seller decide to do **business**, they submit a transaction to First **Virtual**. That transaction can be submitted via standard e-mail or via a proprietary protocol, called...

...First Virtual designed for real-time exchange of MIME objects.

When First Virtual processes a **financial transaction**, it first looks up the buyer's account identifier in its database and finds the...

...with a simple answer of "yes," "no," or "fraud." To actually initiate a real-world **financial transaction**, the buyer must respond with a "yes."

Simple attacks based on Internet sniffing are rendered...

...keys in commerce schemes that use public key cryptography for encryption.

A TOKEN OF YOUR **BUSINESS**

In First **Virtual**'s system, the valuable financial tokens that underlie commerce-- notably credit card numbers and bank...

...fully interactive selling and transaction tool, the VirtualTAG allows buyers to shop, buy, arrange for **payment** through the VirtualPIN, and provide detailed delivery instruction all without leaving the banner. Buyers can... CyberCash (Reston, VA), founded in 1994, is a leading developer of software for secure Internet **payments**. CyberCash provides software for merchants, banks, and consumers utilizing some of the most secure technology...

...Once a price is negotiated with the merchant, the customer is sent an on-line **invoice** detailing the purchase information and a statement confirming the total charges. The customer then adds...

...PIN where appropriate. This information is encrypted and returned to the merchant with the original **invoice**. The merchant adds identification information and forwards all the information to the CyberCash server. At...

...is run off the Internet file server.

In addition to facilitating debit or credit card **payments**, CyberCash also provides independent electronic **payment** services. Users establish accounts directly with CyberCash; accounts are maintained on the basis of an...

...CyberCash accounts remain within the participating banks. CyberCash accounts are suitable particularly for electronic cash **payments** that are too small to be processed cost effectively as discrete credit card or debit card **payments**. This service will permit companies to process a large volume of small **payments**, a phenomenon that is expected to arise from the

projected explosion in entrepreneurial electronic information publishing and commerce from the Fortune 1 billion companies.

The CyberCash Secure Internet **Payment** Service allows banks to address their merchants' needs for a universal, automated, convenient, and secure on-line **payment** mechanism. Through agreements with established authorization-processors, CyberCash extends the automated point-of-sale paradigm to on-line transactions, thus leveraging the existing electronic **payment** infrastructure. Banks and their merchants make only minimal changes to their current operating procedures, and the existing infrastructure of **payment** acceptance remains intact. This allows banks to quickly integrate secure on-line **payments** into their service offerings.

MICROSOFT MERCHANT SERVER

Will malls become obsolete now that Microsoft's...

...on the Internet, with the appeal of personalized services and the familiarity of credit card **payment**. Web users open a Merchant Server site and immediately find themselves in a virtual store...excursion.

The Netscape Merchant System also incorporates a complete order-processing system that includes secure **payment** processing, shipping and sales tax, order delivery, and integration with existing order and fulfillment systems...

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02852059 Supplier Number: 45781882 (USE FORMAT 7 FOR FULLTEXT)

E-SHOPPING: VIRTUAL VINEYARDS TAKES THE FEAR OUT OF ELECTRONIC COMMERCE; BECOMES FIRST INTERNET RETAILER TO INCORPORATE NON-PROPRIETARY PAYMENT TECHNOLOGY FOR WORLD WIDE WEB

Sept 11, 1995

Word Count: 818

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HOW CYBERCASH **PAYMENT** WORKS To conduct a secure **payment**

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03815379 SUPPLIER NUMBER: 13807844 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Imaging for libraries and information centers. (includes bibliography)
Nov-Dec, 1992
WORD COUNT: 28671 LINE COUNT: 02361

... on the processing of documents and aim at automating that processing. Examples include purchase orders, invoices, credit card charges, and insurance policies.

2. Storage and retrieval systems. These systems are designed... vendors described in this chapter should realize that most of them focus on workflow or transaction processing systems - the type popular in banking and financial markets. Few have ever dealt with a library as a potential client. It may take...of systems for the low-end PS/2, the mid-range AS/400, and Multiple Virtual Storage/ Enterprise Systems Architecture (MVS/ESA) mainframe environments. IBM's systems, which have been named ImagePlus, incorporate...upon the traditional file folder environment of offices. In addition, Unisys markets InfoImage IIPS, a payment processing application designed for the financial community.

Unisys offers extensive consulting and training support. It...
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